SKN 100



V _{RSM}	V _{RRM}	I _{FRMS} = 200 A (maximum value for continuous operation)		
V	V	I _{FAV} = 100 A (sin. 180; T _c = 120 °C)		
400	400	SKN 100/04	SKR 100/04	
800	800	SKN 100/08	SKR 100/08	
1200	1200	SKN 100/12	SKR 100/12	
1400	1400	SKN 100/14	SKR 100/14	
1600	1600	SKN 100/16	SKR 100/16	
1800	1800	SKN 100/18	SKR 100/18	

Stud Diode

Rectifier Diode

SKN	100
SKR	100

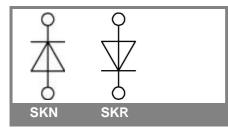
Features

- Reverse voltages up to 1800 V
- Hermetic metal case with glass insulator
- Threaded stud ISO M12, M16 x 1,5
- SKN: anode to stud, SKR: cathode to stud

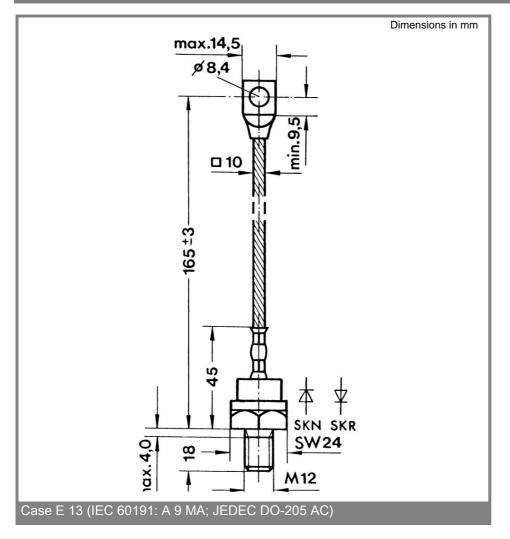
Typical Applications

- All-purpose mean power rectifier diodes
- · Cooling via heatsinks
- Non-controllable and half-controllable rectifier
- Free-wheeling diodes
- Recommended snubber network: RC: 0,25 μF, 50 Ω, (P $_{\rm R}$ = 2 W), R $_{\rm P}$ = 50 kΩ (P $_{\rm R}$ = 20 W)

Symbol	Conditions	Values	Units
FAV	sin. 180; T _c = 100 °C	125	А
I _D	K 1,1; T _a = 45 °C; B2 / B6	140 / 204	А
	K 1,1F; T _a = 35 °C; B2 / B6	240 / 336	А
I _{FSM}	T _{vi} = 25 °C; 10 ms	1750	А
	T _{vi} = 180 °C; 10 ms	1500	А
i²t	T _{vi} = 25 °C; 8,3 10 ms	15000	A²s
	T _{vj} = 180 °C; 8,3 10 ms	11500	A²s
V _F	T _{vi} = 25 °C; I _F = 400 A	max. 1,55	V
V _(TO)	T _{vi} = 180 °C	max. 0,85	V
r _T	T _{vi} = 180 °C	max. 1,8	mΩ
I _{RD}	$T_{vj} = 180 \text{ °C}; V_{RD} = V_{RRM}$	max. 15	mA
Q _{rr}	T _{vj} = 160 °C; - di _F /dt = 10 A/μs	100	μC
R _{th(j-c)}		0,45	K/W
R _{th(c-s)}		0,08	K/W
T _{vj}		- 40 + 180	°C
T _{stg}		- 55 + 180	°C
V _{isol}		-	V~
Ms	to heatsink	10	Nm
a		5 * 9,81	m/s²
m	approx.	100	g
Case		E 13	



SKN 100



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